

Preliminary Technical Programme (approved papers as of 20 July)

PLENARY PRESENTATIONS

Maintenance Management and Sustainability: An Historical Perspective

José Antonio Botín, Department of Underground Mineral Resources Exploitation, Universidad Politécnica de Madrid, Spain

Predictive Maintenance: Optimizing CBM Decisions

Andrew Jardine, Department of Mechanical and Industrial Engineering, University of Toronto, Canada

SAG Mill #4 Stator Rewind at Minera Escondida Laguna Seca Concentrator Plant

Edwin Orcha and Nelson Cavour, Minera Escondida, Chile

MAINTENANCE MANAGEMENT (25)

MAPLA2010

Structure of Maintenance Information

Mario Troffé, Skanska Servicios de Operación y Mantenimiento, Argentina

Maintenance Process Optimisation Within a Systemic Vision of Business

Jorge Morales and William López, Compañía Minera Antamina, Peru

Improvement Maintenance Applied to 1400 x 1400 Roller Press

Jorge Toledo, CAP Minería, Compañía Minera del Pacífico Minas El Romeral, Chile

The New Maintenance Contract from Global Services: LX-SX-EW Maintenance Supervision

Luis Alvarado S. and José Oyanadel C., Codelco Norte, Chile

Increasing the Reliability of Conveyor Belt Systems to Avoid Repetitive Failure

Juan Huete and Erick Escalante, Minera Barrick Misquichilca, Lagunas Norte, Peru

Sustainability: A Requirement in Business

Genaro Pérez, IXC Consultores, Chile

Low Mill Pump Selection Criteria Through Reliability and Maintainability

Carlos Morales, Ingeniería La Cumbre, Chile

Maintenance Management Using BSi PAS 55 Asset Management Standard

José B. Durán, The Woodhouse Partnership, Venezuela

Optimising Plant Shutdowns: Scope, Timing and Possible Reduction with Cost-Risk Focus

José B. Durán, The Woodhouse Partnership, Venezuela

Maintenance Programming Management Using Graphic Analysis of Shutdown Sequencing

Adolfo Arata, Pablo Viveros and Rodrigo Mena, Universidad Técnica Federico Santa María, Chile; Roberto Villalón, Centro de Gestión Empresarial, Chile

Study of Maintenance Software Perceptions and Preferences in the Chilean Industry

Edith Carmona and Fredy Kristjanpoller, Universidad Técnica Federico Santa María, Chile

SAG Motor Ring Maintenance

Alcides Sandoval, Codelco, Andina Division, Chile

MANTEMIN2010

Centralised Planning and Balanced Scorecard Applied to Bucyrus Equipment Services

Elizabeth Torrejón, Bucyrus, Chile

TBO Analysis for Major Components

Edson Poblete and Gonzalo Navarro, Komatsu, Chile

Methodology for Improving the Reliability of a Critical Extraction Truck Component

Daniel Alfaro, Komatsu, Chile

Management to Improve the Availability and Reliability for Lubrication in Mining Shovels

Jeannette Silva and Freddy Galleguillos, Bel-Ray, Chile

Improvement of Brake System Reliability on Caterpillar 797B Trucks

Manuel Cifuentes and Marcelo Zamorano, Minera Escondida, Chile

Strategy for Changing Components on electric Drive Systems of 777D Trucks

Víctor Barrientos, Anglo American, División Mantoverde, Chile

Shovel Fault Analysis in Mining

Raúl Henríquez, Universidad de Antofagasta, Chile

Simple Selection Method for Determining Critical Machines in a Fleet

Jorge Heredia, Minera Escondida, Chile

Reliability Applied to Production Equipment Fleets in Underground Mining Using SAP-PM Data

Pedro Rojas and Cristián Gaete, Codelco, División Andina, Chile

The Route Towards Excellence in Maintenance

Ron Galisky, GMC Global, Chile

Boliden Harjavalta Oy Outsourced Maintenance: Expectations and Experience

Tuokkola Pekka, Boliden Harjavalta, Finlandia

Best Maintenance Practices Associated with Fluid Contamination Control

Juan Espergue and Patricio Castillo, Minera Spence, Chile

BICC Project Applied in Maintenance Management

Dianne Pizarro, Minera Escondida, Chile

BEST MAINTENANCE PRACTICES (10)

MAPLA2010

Improving the Efficiency of Heat Exchange in Gyratory Primary Crushers

Benedito Macias, Eliomar Matias, Zacarias Vitoriano da P., Ernane Meireles da S. and Adilson Gonçalves de O., Vale, Brasil

Assembly and Disassembly of Inferior Concaves

Roberto Bally, Barrick Gold Corporation, Argentina

SAG Mill #3 Crown Change at Minera Escondida Los Colorados Concentrator Plant

Rodrigo Alonso and Julio Villagrán, Minera Escondida, Chile

Continuous Improvement Processes for Mill Liners

Patricio Muñoz, Minera Escondida, Chile

MANTEMIN2010

Best FLAC Maintenance Practices for Mining Equipment

Marcelo Tapia, Minera Escondida, Chile

Exhaust Temperature Differences in Diesel Engines

Cristian Contreras and Eduardo Carvajal, Minera Escondida, Chile

Elimination of Yoke Defects on Caterpillar 793 Trucks

Andrés Fuica and Fae Eva, Minera Escondida, Chile

Maintenance Interval Extension from 250 to 500 hrs on CAT 797B Trucks

Mauricio Letelier V., Cristian Contreras T. and David Pohl, Minera Escondida

Increase in the Useful Life of Electric Drive Systems for 797 MEL-Finning Trucks

Sebastián Astudillo, Minera Escondida, Chile

P&H MAX: A Way to Ensure Maximum Performance with No Effort

Jorge P. Gim y Camilo G. Sánchez, P&H MinePro Services, Chile

ADVANCED TECHNIQUES AND TECHNOLOGICAL DEVELOPMENTS (20)

MAPLA2010

Mill Relining Process Technology

Wiston Rocher, Russell Mineral Equipment, Chile

Leak Detection in Acid Tower by Acoustic Emission (AE) and Other Non-Destructive Testing (NDT) Means

Afshin Sadri and Pawel GebSKI, Hatch, Canadá; David Rojas, Codelco Norte, Chile; Guido Zamorano, Mario Escudero and Juan Araya, Hatch Ingenieros y Consultores, Chile

Transparent Lubricants for Mill Operations Under Hydrodynamic Working Conditions

Lincoyán Castillo, Bel-Ray, Chile

Control Using Proportional Valves in Oleohydraulic Operations and Its Maintainability

Francisco Vildósola, Maestranza Diesel, Chile

Inspection Techniques: Crack Detection and Weld Scan Using Electromagnetic Technique

Tom Shumka, Global Inspections-NDT, Chile

Non-Destructive Testing: Crack Detection on Crown Gears Using Advanced Eddy Current Techniques

Tom Shumka, Global Inspections-NDT, Chile

Non-Destructive Testing: Tube Inspection Using Advanced NDT

Tom Shumka and Mathieu Beauchesne, Global Inspections-NDT, Canadá

Overhaul and Upgrade of AF14 – 120MN Apron Feeders

José Arriagada y Pablo González, Metso Minerals, Chile

Online Monitoring and Safety Protection for Reciprocating Pumps

Alex Adriazola, SKF, Chile

Performance of the MIG/MAG Welding Process in Thermal Pulsed Mode in the Over-Head Position

Jorge Aguirre and Víctor Vergara, Universidad de Antofagasta, Chile

Trended Conditioning Monitoring for High Production Equipment

Francisco Ramírez, Maestranza Diesel, Chile

Wind Energy in Chile: A Challenge of Innovating in Asset Management

Francisco Comparini, SKF, Chile

Designing a Method for Bulk Solid Materials Transfer

Fernando Kanacri S. and Cristian Arriagada E., Sistemas de Transporte de Materiales, Chile

MANTEMIN2010

Automatic Lubrication System for Padlock Pins

Eduardo Merchán, Gerardo Brausewetter and Víctor A. Martínez, Minera Bajo de la Alumbrera, Argentina

Mine Rovers 'Saving Lives': Manipulative Hydraulic Mining Tools

Manuel Medel and Marcelo Medel, Conymet, Chile

Midas Alarm Management on a Bucyrus 495 HR Shovel Fleet

Raúl Quiroga, Minera Escondida, Chile

Modification to the Grader Turntable Bolt Anchoring System Model 24H

José Cuesta, Minera Escondida, Chile

Real-Time Condition Monitoring for Mining Equipment

Cristian González, Pontificia Universidad Católica de Chile

Re-Design of Rock Extractor Device for Komatsu HD 785 Trucks

Michael Rojas, Universidad de Antofagasta, Chile

Reliability and Efficiency of Shell Tactic EMV Automatic Multipurpose Lubrication

Werner Rettig, Shell, Chile

SAFETY IN MAINTENANCE (3)

MANTEMIN2010

Maintenance Quality and Safety Through Total Loss Control

Janett S. Guerrero, Bucyrus International, Chile

Implementation of a New Auxiliary Stair Design on Shovel Fleets

Gonzalo Viñas, Manuel Cifuentes and Yerko Fuentes, Minera Escondida, Chile

PLC Controlled Irrigation System on CAT 777 Water Trucks

Leonardo Rioseco C., Minera Escondida, Chile